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EXPRESS MAIL NO. EV 432 689 830 US

PATENT APPLICATION

Docket No: 16015.1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Roger Hitchcock

Serial No.:

10/784,755

Art Unit  
2838

Filed:

February 23, 2004

Confirmation No.:

2201

For:

CIRCUIT FOR COMPENSATING RISE TIMES  
AND RINGING IN HIGH IMPEDANCE LOADS

TRANSMITTAL FOR INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

Transmitted herewith for filing and pursuant to 37 C.F.R. § 1.97 is an Information Disclosure Statement, which includes the following statements, if any, required variously by 37 C.F.R. § 1.98:

- Statement of relevance of selected cited references not in the English language which are not translated.
- Statement that selected cited references are substantially cumulative of an enclosed or previously submitted reference.
- Statement that selected cited references were previously cited by or submitted to the United States Patent and Trademark Office in a prior application which is relied upon for an earlier filing date under 35 U.S.C. § 120.

R. PARRISH FREEMAN, JR.  
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CLINTON E. DUKE

A. Additional Materials Required Due to Content of Information Disclosure Statement

Transmitted are the following documents in addition to the Information Disclosure Statement as required variously under 37 C.F.R. § 1.98:

- ☒ Form PTO-1449 listing 15 references submitted for consideration.
- ☒ A copy of three of the Non-US references listed on the Form PTO-1449.
- ☐ English translations of ☐ ( ) of the references listed on the Form PTO-1449 which are not in the English language.
- ☐ Copies of the following documents from the prosecution of a previous, related application:
  - ☐ Form PTO-1449 AND INFORMATION DISCLOSURE STATEMENT; and
  - ☐ Form PTO-892

B. Additional Materials Required Due to Timing of Filing of Information Disclosure Statement

The transmitted Information Disclosure Statement is being filed within one (1) of the following four (4) time periods:

- I. ☒ Prior to the later of either three (3) months following the filing date or the mailing of a first Office Action. Accordingly, no materials other than those listed above are enclosed.
- II. ☐ Following the latter of either three (3) months following the filing date or the mailing of a first Office Action, but before the mailing of a final Office Action or a Notice of Allowance. Accordingly, to secure consideration thereof, one (1) of the following is also enclosed:
  - ☐ Promptness Certification; or
  - ☐ Check No. \_\_\_\_\_ in the amount of \$180.00 constituting the submission fee set forth in 37 C.F.R. § 1.17(p).
- III. ☐ After the mailing of a Notice of Allowance, but before payment of the Issue Fee. Accordingly, in order to secure consideration thereof, each of the following are also enclosed:
  - ☐ Promptness Certificate;
  - ☐ Petition for Consideration; and

- \_\_\_\_ Check No. in the amount of \$ \_\_\_\_\_ constituting the petition fee set forth in 37 C.F.R. § 1.17(i)(1).
- IV. \_\_\_\_ After payment of the Issue Fee. Accordingly, in order to secure consideration thereof, each of the following are also enclosed:
- \_\_\_\_ Petition to Withdraw from Issue; and
- \_\_\_\_ Check No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ constituting the petition fee set forth in 37 C.F.R. § 1.17(i)(1).

C. Fees

The Commissioner is hereby authorized to charge payment of or any deficiency in the following fees associated with this communication, or to credit any overpayment thereof, to Deposit Account No. 23-3178. A duplicate copy of this letter is enclosed.

- X Any fee required in relation to filing of this letter or any documents transmitted therewith.
- \_\_\_\_ The submission fee set forth in 37 C.F.R. § 1.17(p) in the event that 37 C.F.R. § 1.97(c) applies and the Examiner is not satisfied that any Promptness Certificate submitted meets the requirements of 37 C.F.R. § 1.97(e).
- \_\_\_\_ The submission fee set forth in 37 C.F.R. § 1.17(p).
- \_\_\_\_ The petition fee set forth in 37 C.F.R. § 1.17(i)(1).

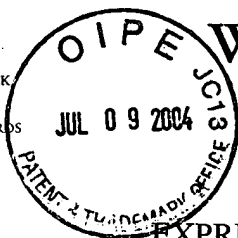
Dated this \_\_\_\_ day of July 2004.

Respectfully submitted,



CARL T. REED  
Attorney for Applicant  
Registration No. 45,454  
Customer No. 022913  
Telephone No. 801.533.9800

RICK D. NYDEGGER  
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	)	
Roger Hitchcock	)	
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Serial No.:	)	Art Unit
10/784,755	)	2838
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February 23, 2004	)	
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For:	)	
CIRCUIT FOR COMPENSATING RISE TIMES	)	
AND RINGING IN HIGH IMPEDANCE LOADS	)	



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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

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- ☒ A copy of three of the Non-US references listed on the Form PTO-1449.
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C. Fees

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- X Any fee required in relation to filing of this letter or any documents transmitted therewith.
- \_\_\_\_ The submission fee set forth in 37 C.F.R. § 1.17(p) in the event that 37 C.F.R. § 1.97(c) applies and the Examiner is not satisfied that any Promptness Certificate submitted meets the requirements of 37 C.F.R. § 1.97(e).
- \_\_\_\_ The submission fee set forth in 37 C.F.R. § 1.17(p).
- \_\_\_\_ The petition fee set forth in 37 C.F.R. § 1.17(i)(1).

Dated this \_\_\_\_ day of July 2004.

Respectfully submitted,



CARL T. REED  
Attorney for Applicant  
Registration No. 45,454  
Customer No. 022913  
Telephone No. 801.533.9800



EXPRESS MAIL NO. EV 432 689 830 US

PATENT APPLICATION  
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of	)	
	)	
Roger Hitchcock	)	
	)	
Serial No.:	)	Art Unit
10/784,755	)	2838
	)	
Filed:	)	
February 23, 2004	)	
	)	
Confirmation No.:	)	
2201	)	
	)	
For:	)	
CIRCUIT FOR COMPENSATING RISE TIMES	)	
AND RINGING IN HIGH IMPEDANCE LOADS	)	

CERTIFICATE OF EXPRESS MAIL UNDER 37 C.F.R. § 1.10

I hereby certify that the following documents are being deposited with the United States Postal Service as express mail, postage prepaid, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 9<sup>th</sup> day of July 2004:

- Transmittal for Information Disclosure Statement (3 pgs.)
- Information Disclosure Statement (2 pgs.)
- Form PTO-1449 (2 pgs.)
- A copy of three Non-US references listed on the Form PTO-1449
- Postcard

Respectfully submitted,

CARL T. REED  
Attorney for Applicant  
Registration No. 45,454  
Customer No. 022913  
Telephone No. 801.533.9800



EXPRESS MAIL NO. EV 432 689 830 US

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Serial No.:	10/784,755	)	Art Unit
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		)	
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For:	CIRCUIT FOR COMPENSATING RISE TIMES	)	
	AND RINGING IN HIGH IMPEDANCE LOADS	)	

INFORMATION DISCLOSURE STATEMENT  
UNDER 37 C.F.R. § 1.97

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Please find, pursuant to 37 C.F.R. § 1.98(a)(1), the enclosed Form PTO-1449 which contains a list of all patents, publications, or other items that have come to the attention of one or more of the individuals designated in 37 C.F.R. § 1.56(c). While no representation is made that any of these references may be "prior art" within the meaning of that term under 35 U.S.C. §§ 102 or 103, the enclosed list of references is disclosed so as to fully comply with the duty of disclosure set forth in 37 C.F.R. § 1.56.

Moreover, while no representation is made that a specific search of office files or patent office records has been conducted or that no better art exists, the undersigned attorney of record believes that the enclosed art is the closest to the claimed invention (taken in its entirety) of which the undersigned is presently aware, and no art which is closer to the claimed invention (taken in its entirety) has been knowingly withheld.

In accordance with 37 C.F.R. §§ 1.97 and 1.98, a copy of each of the listed references or relevant portion thereof is also enclosed.



In accordance with 37 C.F.R. § 1.98(c), all English translations within the possession, custody, control or availability of anyone designated in 37 C.F.R. § 1.56(c) of each non-English reference, if any, are also enclosed.

Statement of Relevance of References Listed  
Unaccompanied by English Translation  
Under 37 C.F.R. § 1.98(a)(3)

In accordance with 37 C.F.R. § 1.98(a)(3), the following concise explanation of the relevance of each listed reference that is not in the English language and unaccompanied by a translation into English is provided.

Japanese Application No. 2001-168430: A high pulse rate pulse power source for supplying controlled high energy electrical pulses at repetition rate of 2,000 Hz or higher. The source includes a pulse generating circuit including a charging capacitor, a semiconductor switch, and a current-limiting inductor. Pulses generated in the pulse generating circuit are compressed in at least two pulse compression circuits and a step-up pulse transformer increase peak voltage to at least 12,000 volts. An ultra-fast regulated power supply is provided for charging the charging capacitor in less than 400 microseconds and a pulse control system, including a programmed processor controls the charging of the charging capacitor to an accuracy of less than about one percent at a rate of at least 2,000 charges per second.

Russian Application No. 2 167 491 C2: discloses a generator designed for producing high-voltage pulses distinguished by short rise time and flat portion and used where electron beams and X-rays are required has series-connected pulse source and core-type pulse transformer whose core has longitudinal passage for current conductor that interconnects pulse source and transformer primary winding. Novelty is that transformer winding has n parallel circuits each connected to pulse-source capacitors and that it is proportional to expression  $1(2n-1)^2$ , where n is number of primary-winding circuits.

DATED this 9<sup>th</sup> day of July 2004.

Respectfully submitted,



Carl T. Reed  
Attorney for Applicant  
Registration No. 45,454  
CUSTOMER NUMBER: 022913

CTR: blh

W:\16015\1\BLM0000002555V001.doc

Applicant: Roger Hitchcock

Confirmation No.: 2201

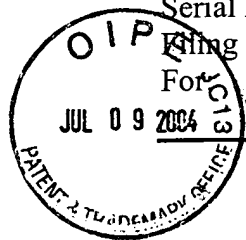
Serial No.: 10/784,755

Att'y Docket No.: 16015.1

Filing Date: February 23, 2004

Group: 2838

For: CIRCUIT FOR COMPENSATING RISE TIMES AND RINGING IN HIGH IMPEDANCE LOADS

INFORMATION DISCLOSURE CITATIONS MADE BY APPLICANTU.S. Patent Documents

<u>Examiner Initial*</u>	<u>Document Number</u>	<u>Issue Date</u>	<u>Name</u>
___ 1	4,005,315	01/25/1977	Zinn
___ 2	4,255,668	05/10/1981	Harrison
___ 3	4,272,692	06/09/1981	Morse
___ 4	4,275,317	06/23/1981	Laundenslager ,et al.
___ 5	4,442,362	04/10/1984	Rao
___ 6	4,684,820	08/04/1987	Valencia
___ 7	5,089,727	02/18/1992	Molitor, et al.
___ 8	5,495,209	02/29/1996	Gerstenberg
___ 9	5,621,255	04/15/1997	Leon, et al.
___ 10	5,900,681	05/04/1999	Johansson, et al.
___ 11	6,355,992	03/12/2002	Via
___ 12	6,633,093	10/14/2003	Rim, et al.

Foreign Patent Documents

<u>Examiner Initial*</u>	<u>Document Number</u>	<u>Publication Date</u>	<u>Country or Patent Office</u>
___ 13	JP2002/000277282	06/22/2001	Japan
___ 14	RU1999/000118119	05/20/2001	Russia
___ 15	WO99/60679	11/25/1999	PCT

Examiner:

Date Considered:

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant: Roger Hitchcock

Confirmation No.: 2201

Serial No.: 10/784,755

Att'y Docket No.: 16015.1

Filing Date: February 23, 2004

Group: 2838

For: CIRCUIT FOR COMPENSATING RISE TIMES AND RINGING IN HIGH  
IMPEDANCE LOADS

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Other Documents

(including author, title, pertinent pages, etc.)

Examiner

Initial\*

NONE

**References Cited by Applicants**

While the filing of Information Disclosure Statements is voluntary, the procedure is governed by the guidelines of Section 609 of the Manual of Patent Examining Procedure and 37 C.F.R. §§ 1.97 and 1.98. To be considered a proper Information Disclosure Statement, Form PTO-1449 shall be accompanied by a copy of each listed patent or publication or other item of information and a translation of the pertinent portions of foreign documents (if an existing translation is readily available to the applicant), an explanation of relevance of each reference not in the English language, and should be submitted in a timely manner as set out in MPEP Sec. 609.

Examiners will consider all citations submitted in conformance with 37 C.F.R. § 1.98 and MPEP Sec. 609 and place their initials adjacent the citations in the spaces provided on this form. Examiners will also initial citations not in conformance with the guidelines which may have been considered. A reference may be considered by the Examiner for any reason whether or not the citation is in full conformance with the guidelines. A line will be drawn through a citation if it is not in conformance with the guidelines AND has not been considered. A copy of the submitted form, as reviewed by the Examiner, will be returned to the applicant with the next communication. The original of the form will be entered into the application file.

Each citation initialed by the Examiner will be printed on the issued patent in the same manner as references cited by the Examiner on Form PTO-892.

The reference designations "A1," "A2," etc. (referring to Applicant's reference 1, Applicant's reference 2, etc.) will be used by the Examiner in the same manner as Examiner's reference designations "A," "B," "C," etc. on Office Action Form PTO-1142.

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Examiner:

Date Considered:

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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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